



EASYZON D

SAFE, reliable & efficient on-site generation of chlorine dioxide

EASYZON D 5, 10, 20, 40 g/h CIO₂

For Legionella Control in hospitals, nursing homes, hotels, commercial buildings.
Food & beverage CIP disinfection,
Cooling tower biocide treatment,
food washing & process water.



Function

EASYZON D - range of systems provide a batch supply of chlorine dioxide solution for on-demand chemical dosing & disinfection applications, generated from chlorite/acid chemical reagent process.

The EASYZON D automatically draws and mixes precise volumetrically measured amounts of acid and chlorite, under vacuum, from respective chemical storage containers. The reacted chlorine dioxide solution is homogenised and diluted with a volumetrically controlled flow of cold water prior to dispensing into the integral storage tank under atmospheric pressure.

Retention time of the chlorite/acid mixing is continuously controlled within the generator and automatically diluted and dispensed into the product batch tank, the level of which is governed by electronic level sensors.

The EASYZON D accepts an external pulse water signal input to conventiently record site water usage in combination with the integrated volumetric usage record of chemical reagents.

Benefits

- Batch preparation and dosing apparatus all fully contained within a single, lockable unit.
- Safe handling of chemical reagents drawn from containers under vacuum
- Vacuum process eliminates need of chemical reagent dosing pumps and associated loss of prime and pump head maintenance.
- Reagent consumption precisely governed by volumetric flow sensors optimising chemical usage.
- A second output dosing pump can be connected externally for multipoint dosing.
- Simple and low maintenance frequency
- Low whole life costs

Functions

- Models available for 5, 10, 20 and 40 g/h chlorine dioxide generation capacity
- Durable and attractive plastic equipment cover with security lock facility.
- Easy to operate membrane keypad multi-lingual control panel & OLED display with green, amber and red LED operational status indicators.
- · Operational parameters displayed with code protected programming.
- · Alarm event log with real time clock recording.
- Volumetric measurement and data storage of chemical reagent consumption volumes and site water meter usage.
- Service Due & and ReactorReplacement alert.
- · Corrosion resistant PVDF valves and sensors.
- Modbus & Telemetry (optional) to monitor and alert chemical reagent usage, site water/process usage volumes, control status and data trending.
- 2 year product warranty.

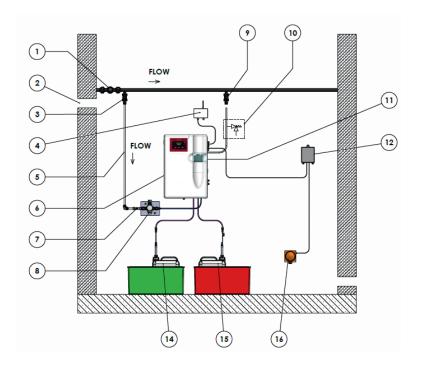
Areas of Application

- · Combatting legionella in water systems
- Food & beverage CIP disinfection
- Cooling tower biocide treatment
- Food washing / processing treatment
- Municipal potable water disinfection
- Secondary disinfection in public buildings
- · Commercial swimming pool filter hygiene
- Odour control in waste processes

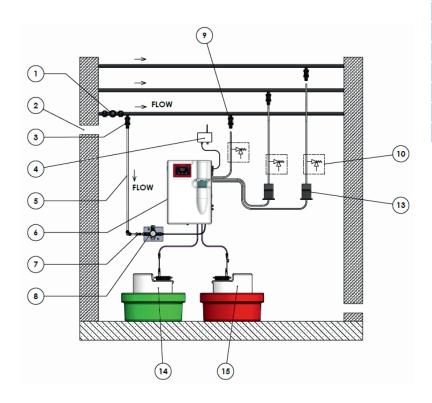


Product Description EASYZON D installation schematics

Single-point dosing



Multi-point dosing



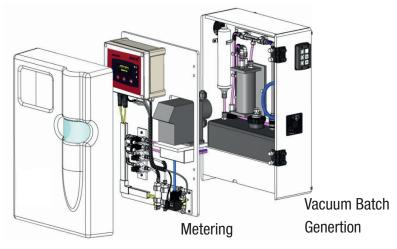
Item	Description
1	Site pulsed water meter (site)
2	Natural room ventilation (site)
3	Cold water feed isolation (site)
4	COMM's/telemetry (optional)
5	Cold feed pipe work (site)
6	EASYZON D chlorine dioxide generator
7	Water supply double check valve (site)
8	Water pressure regulator/filter
9	CIO ₂ dosing injection point
10	Dosing retention/relief (optional)
11	Internal CIO ₂ dosing pump (optional)
12	Gas detect panal (optional)
13	External CIO ₂ dosing pump (optional)
14	Acid reagent drum/tank (optional)
15	Chlorite reagent drum/tank (optional)
16	Gas sensor head (optional)





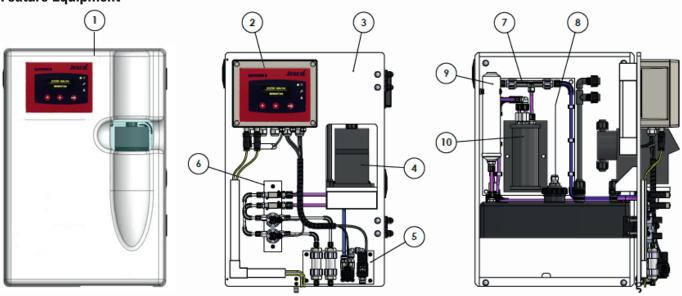
Product Description EASYZON D 5,10,20,40 g/h

EASYZON D Design Concept



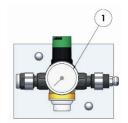
Operation

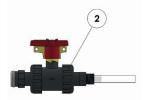




Item	Description
1	EASYZON D plastic cover
2	EASYZON D controller & OLED display
3	Hinged metering & control board assembly
4	Internal CIO ₂ dosing pump (optional)
5	Dilution water flow control
6	Chemical reagent flow control
7	Reagent vaccum & dilution device
8	Batch tank level sensor device
9	Batch tank carbon air scrubber
10	CIO ₂ reactor assembly
Item	Ancillary Equipment
1	Cold water supply pressure regulator/filter assembly
2	Dosing pump injection/isolation valve assembly

Ancillary Equipment







Technical Specification

Description		EASYZON D model capacity			
Description	unit	5	10	20	40
Chlorine dioxide (CIO ₂) capacity		5	10	20	40
CIO ₂ generation strength		2*			
CIO ₂ batch solution strength	mg/l	500	1000	15	00
CIO ₂ batch solution production rate	l/h	9.5	10	13.5	26.9
CIO ₂ batch tank nominal volume	I	8.5			
Power supply	Ø	110 - 240VAC/ø1/ 50-60Hz			
Power rating	VA	20			
Combined peak dosing pump output Dosing pump(s) not included	l/h	15 30		30	
Feed water pressure	bar	2 to 8			
Nominal water consumption	l/h	9.6	9.4	12.4	24.8
Total reagent consumption 1:1 ratio	l/h	0.26	0.52	2.0	4.0
Protection class	IP		5	4	
Permissible ambient temperature	°C		3	5	
Permissible feed water temperature		30			

^{*}precursor concentration (by weight): 9% HCl / 7.5% NaClO2

Part Numbers

Description	Generation capacity	Power supply	Part No.
EASYZON D 5	5g/h	230V	LJED 5/230
	5g/h	110V	LJED 5/110
EASYZON D 10	10g/h	230V	LJED 10/230
	10g/h	110V	LJED 10/110
EASYZON D 20	20g/h	230V	LJED 20/230
	20g/h	110V	LJED 20/110
EASYZON D 40	40g/h	230V	LJED 40/230
	40g/h	110V	LJED 40/110

Memdos Smart LP

Stepper motor dosing pumps in PVDF are extra.

Easypro

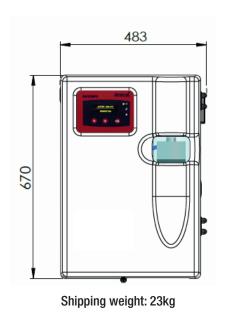
Type CD wall mounted ClO2 and T monitoring system is extra. Available for 40 deg C and for hot water installations up to 65 deg C.





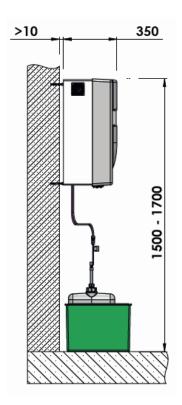
Dimensions & Weight

EASYZON D Overall dimensions (all dimensions in mm)

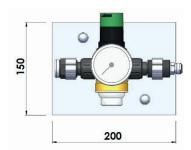


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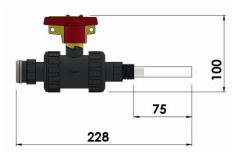
Recommended installation arrangement dimensions



Water PRV dimensions



Injection isolation valve dimensions





MEMDOS SMART LP

MEMDOS SMART LP dosing pumps are recommended for the reliable metering of chlorine dioxide solutions in combination with EASYZON D. Three specially adapted models are exactly suited to complement the the EASYZON D in respect to: capacity, material compatability and control functional-lity. Multi-lingual graphic digital display.

A single MEMDOS SMART LP pump is designed to be mounted directly inside the EASYZON D units and/or mounted external to the EASYZON D unit, depending on dosing configuration and the application requirements



MEMDOS SMART LP		Mem Sm LP5	Mem Sm LP10	Mem Sm LP20	
Delivery conseity at may heat proceure	l/h	5.1	10.7	20.4	
Delivery capacity at max. back pressure	ml/stroke	0.57	1.19	2.27	
Maximum delivery pressure	bar	16	10	5	
Delivery capacity at average back	l/h	5.7	11.3	21.2	
pressure	ml/stroke	0.63	1.26	2.36	
Average delivery pressure	bar	8	5	2.5	
Nominal stroke frequency	rpm	150			
Valve size		DN3	DN4		
Tube connection sizes	mm ID/0D	4/6, 6/9, 6/12			
Voltage supply		110 – 240 V, -10 % / +5 %, 50/60 Hz			
Power consumption	W	25			
Protection / insulation class		IP65 (with covering caps on the connections)			
Materials	Head	PVDF (PVDF tube connections)			
	Diaphragm	TFM-PTFE coated EPDM			
	Valves	Double-ball ceramic/ceramic/FPM (ball/seat/gasket)	Double-ball PTFE/PVDF/FPM (ball/seat/gasket)		
Weight	kg	2.2			
Approved ambient temperature	°C	5 – 45			
Approved media temperature	°C	80			

Dosing control features:

Stroke frequency adjustment, analogue & pulse input, external start-stop, 2 slow-modes, stroke feedback, alarm relay output, batch dosing interval & timer, dosing amount displayed in various units.





System Accessories

Chemical dosig accessories



Pressure retention valve assembly 6/12



Pressure relief valve assembly 6/12



Pressure retention & relief valve assembly 6/12



Injection valve assembly 6/12



Injection point isolation valve assembly 6/12



Rigid drum/tank chemical reagent switched suctions



einforced PVC chemical dosing tube 6/12



Skid system with chemical reagent lockable storage security





Chemical bund tanks (colours optional)



System Acessories









EAYZON D Communications / Telemetry

To take full advantage of functionality: chemical reagent volume usage and minimum level warning alert, site water meter readings, system status and fault diagnosis, the EASYZON D communications unit can provide all this information and more.

Communication is via RS485 Modbus ASCII. Optional telemetry upgrade can provide full Ethernet and 3G/GSM/GPRS communication, ideal forremote service monitoring and data trending. Further signal inputs can be connected to monitor other site conditions such as chlorine dioxide residual levels, temperature and external switch signals.

EASYPRO

A compact analyser using potentiostatic measurement technology with continuous mechanical self-cleaning of electrodes. Measure, monitor and control chlorine dioxide levels in water tanks and water process streams to help provide reliable indication that disinfections levels are being maintained within the operational guidelines of the water process conditions. The analyser can be used to directly control a MEMDOS SMART dosing pump to maintain minimum chlorine dioxide residual levels and act as a safety cut-out facility in the event of any under/over dosing situations. Includes automatic sample water flow rate stabilisation and sample safety flow switch.

EASYCON GW Gas Detector

For detection of ClO2 gas to monitor local air environment at predetermined safety limits, with integrated visual and audible alarm with mute facility. Alarm and fault relays with fail-safe operation. Supplied with gas sensor 0 to 1 ppm ClO2 range.

Photometer

The important task of carrying out chlorine dioxide residual testing and measurement can be easily and accurately performed using photometric test equipment. Portable test kits are ideal for site and service personnel wishing to confirm equipment operation and water conditions are within guideline conditions.

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